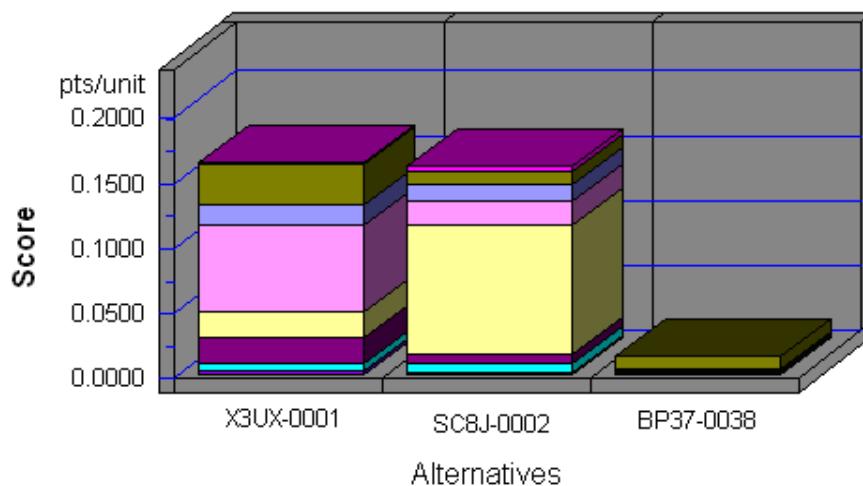


Industrial Cleaners – BEES Analysis Results

Functional Unit: 5 gallons

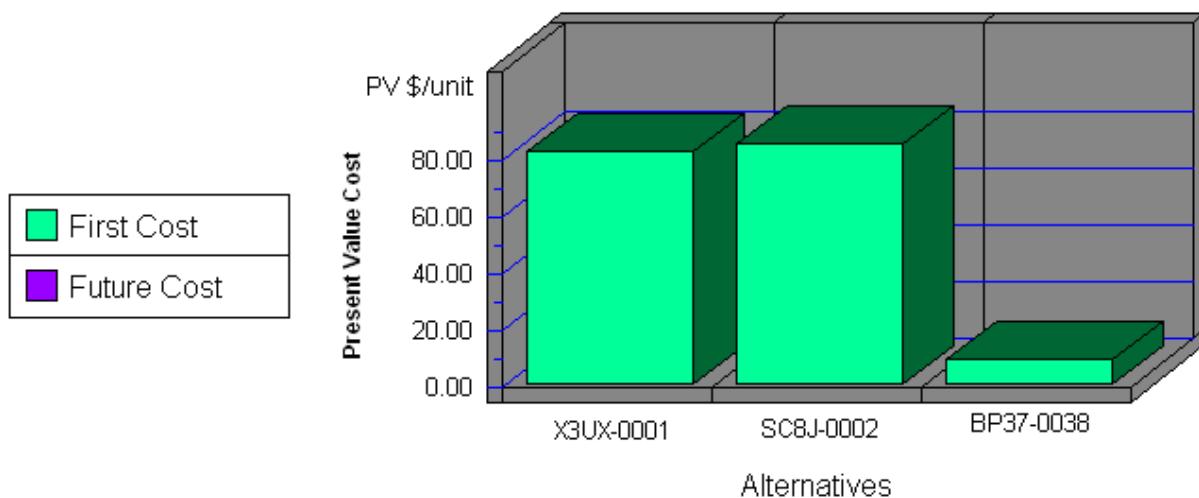
Environmental Performance



Note: Lower values are better

Category	X3UX-0001	SC8J-0002	BP37-0038
Acidification--5%	0.0000	0.0000	0.0000
Crit. Air Pollutants--6%	0.0011	0.0051	0.0000
Ecolog. Toxicity--11%	0.0316	0.0103	0.0107
Eutrophication--5%	0.0153	0.0118	0.0003
Fossil Fuel Depl.--5%	0.0665	0.0189	0.0024
Global Warming--16%	0.0204	0.0989	0.0006
Habitat Alteration--16%	0.0000	0.0000	0.0000
Human Health--11%	0.0202	0.0071	0.0003
Indoor Air--11%	0.0000	0.0000	0.0000
Ozone Depletion--5%	0.0000	0.0000	0.0000
Smog--6%	0.0055	0.0078	0.0006
Water Intake--3%	0.0035	0.0016	0.0003
Sum	0.1641	0.1615	0.0152

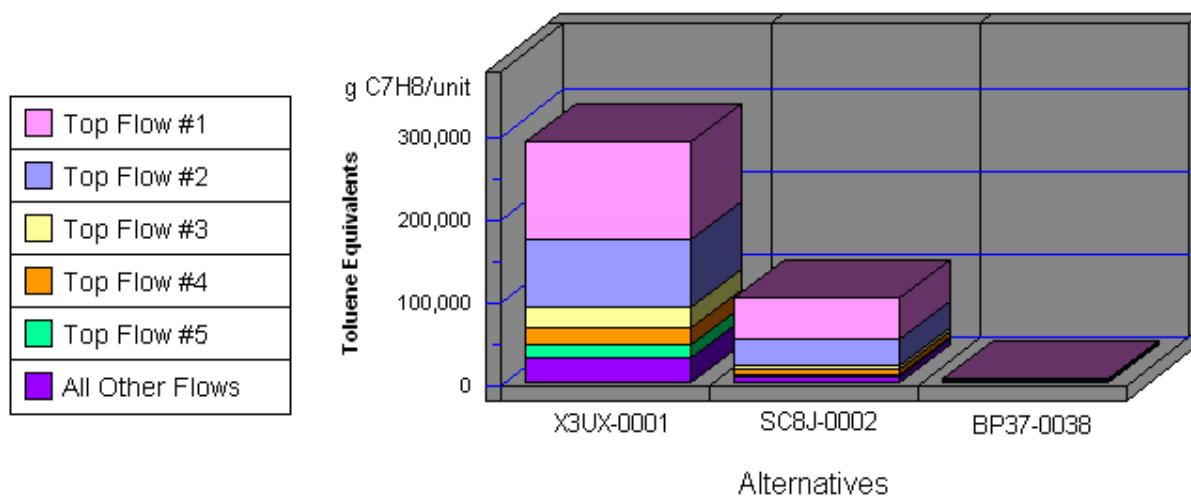
Economic Performance



Category	X3UX-0001	SC8J-0002	BP37-0038
First Cost	82.00	84.95	8.85
Future Cost-- 3.9%	0.00	0.00	0.00
Sum	82.00	84.95	8.85

*No significant/quantifiable durability differences were identified among competing alternatives. Therefore, future costs were not calculated.

Human Health by Sorted Flows*



Note: Lower values are better

Category	X3UX-0001	SC8J-0002	BP37-0038
Cancer--(w) Arsenic (As ³⁺ , As ⁵⁺)	117,719.45	48,705.56	2,151.31
Cancer--(w) Phenol (C ₆ H ₅ OH)	81,783.60	31,911.64	1,551.48
Cancer--(a) Arsenic (As)	24,482.05	5,910.67	166.48
Cancer--(a) Dioxins (unspecified)	20,409.99	6,088.53	300.60
Noncancer--(a) Mercury (Hg)	15,827.74	1,964.03	9.82
All Others	30,735.66	7,994.64	761.75
Sum	290,958.49	102,575.06	4,941.43

*Sorted by five topmost flows for worst-scoring product

Industrial Cleaners				
Impacts	Units	X3UX-0001	SC8J-0002	BP37-0038
Acidification	millimoles H ⁺ equivalents	1.11E+04	3.40E+04	4.33E+02
Criteria Air Pollutants	microDALYs	3.56E+00	1.62E+01	1.34E-01
Ecological Toxicity	g 2,4-D equivalents	2.34E+02	7.65E+01	7.95E+01
Eutrophication	g N equivalents	5.87E+01	4.52E+01	9.71E-01
Fossil Fuel Depletion	MJ surplus energy	4.70E+02	1.33E+02	1.67E+01
Global Warming	g CO ₂ equivalents	3.26E+04	1.58E+05	9.53E+02
Habitat Alteration	T&E count	0.00E+00	0.00E+00	0.00E+00
Human Health	g C ₇ H ₈ equivalents	2.91E+05	1.03E+05	4.94E+03
Indoor Air Quality	g TVOCs	0.00E+00	0.00E+00	0.00E+00
Ozone Depletion	g CFC-11 equivalents	2.21E-04	5.19E-06	1.66E-08
Smog	g NO _x equivalents	1.39E+02	1.98E+02	1.55E+01
Water Intake	liters of water	6.23E+02	2.87E+02	4.87E+01
Functional Unit	-----	5 gallons		
1 Following are more complete descriptions of units: Acidification: millimoles of hydrogen ion equivalents; Criteria Air Pollutants: micro Disability-Adjusted Life Years; Ecological Toxicity: grams of 2,4-dichlorophenoxy-acetic acid equivalents; Eutrophication: grams of nitrogen equivalents; Fossil Fuel Depletion: megajoules of surplus energy; Global Warming: grams of carbon dioxide equivalents; Habitat Alteration: threatened and endangered species count; Human Health: grams of toluene equivalents; Indoor Air Quality: grams of Total Volatile Organic Compounds; Ozone Depletion: grams of chlorofluorocarbon-11 equivalents; Smog: grams of nitrogen oxide equivalents; and Water Intake: liters of water.				